

EXHIBIT A

MARKED-UP COPIES OF AMENDED CLAIMS

1. (Four Times Amended) An electric plant for high voltage including one or more motors, each comprising at least one winding, wherein the winding of at least one of the electric motors forms at least one complete uninterrupted turn, said winding comprising an electrical conductor including an electric field confining insulation system in contact with the conductor including an inner semiconducting layer, surrounding and being in electrical contact with the conductor; a solid insulation layer surrounding [and being in intimate contact with] the inner layer and an outer semiconductor layer surrounding [and being in intimate contact with] the insulation layer, each layer forming an equipotential surface around the conductor.

29. (Thrice Amended) A plant for high voltage electric including a motor including at least one winding, wherein said winding comprises a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor including an inner layer of semiconducting material surrounding and being in electrical contact with the conductor, a solid insulating layer surrounding [and being in intimate contact with] the inner layer, and an outer semiconducting layer surrounding [and being in intimate contact with] the insulation layer, the conductor including at least one of a plurality of insulated conductive elements and at least one uninsulated conductive element in contact with the cover, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

43. (Twice Amended) An electric plant for high voltage including at least one motors comprising at least one winding in the form of at least one uninterrupted turn, the winding including an electrical conductor, a magnetically permeable electric field confining insulating covering in contact with the conductor including an inner semiconducting layer surrounding and being in electrical contact with the conductor; a solid insulation surrounding [and being in intimate contact with] the inner layer and an outermost semiconducting layer surrounding [and being in intimate contact with] the insulation layer, each semiconducting layer forming an equipotential surface around the conductor.

44. (Twice Amended) An electric plant for high voltage including at least one motor comprising at least one winding, including an electrical conductor forming at least one complete turn of the winding, an electric field confining insulating covering surrounding the conductor including an inner semiconducting layer in electrical contact with the conductor; a solid insulation surrounding [and being in intimate contact with]the inner layer, and an outermost semiconducting layer surrounding [and being in intimate contact with] the insulation layer, each semiconducting layer forming an equipotential surface around the conductor.

EXHIBIT B

CLEAN COPY OF PENDING CLAIMS

1. (Four Times Amended) An electric plant for high voltage including one or more motors, each comprising at least one winding, wherein the winding of at least one of the electric motors forms at least one complete uninterrupted turn, said winding comprising an electrical conductor including an electric field confining insulation system in contact with the conductor including an inner semiconducting layer, surrounding and being in electrical contact with the conductor; a solid insulation layer surrounding the inner layer and an outer semiconductor layer surrounding the insulation layer, each layer forming an equipotential surface around the conductor.
2. (Amended) A plant as claimed in claim 1, wherein at least one motor has one or more connection voltages.
3. (Amended) A plant as claimed in claim 1, wherein at least one of the layers has substantially the same coefficient of thermal expansion as the solid insulation.
4. (Twice Amended) A plant as claimed in claim 1, wherein transformation of substantial power takes place in the same electric motor.
6. (Twice Amended) A plant as claimed in claim 1, wherein the inner semiconducting layer is at substantially the same potential as the conductor.

7. (Twice Amended) A plant as claimed in claim 1, wherein the semiconducting layers each form an equipotential surface surrounding the conductor.

8. (Amended) A plant as claimed in claim 7, wherein said outer semiconducting layer is connected to a predefined potential.

9. (Amended) A plant as claimed in claim 8, wherein the predefined potential is earth potential.

10. (Twice Amended) A plant as claimed in claim 1, wherein at least two of said layers have substantially the same coefficient of thermal expansion.

11. (Twice Amended) A plant as claimed in claim 1, wherein the current-carrying conductor comprises at least one of a plurality of insulated conductive elements, and at least one uninsulated conductive element in contact with the inner layer.

12. (Twice Amended) A plant as claimed in claim 29, wherein the cover comprises at least one current-carrying conductor an inner semiconducting layer being arranged around the conductor, layer of solid insulation arranged around the inner semiconducting layer and an outer semiconducting layer arranged around the insulating layer.

13. (Amended) A plant as claimed in claim 12, wherein the cable comprises a metal screen and a sheath.

14. (Twice Amended) A plant as claimed in claim 1, wherein the stator of the motor is cooled at earth potential by means of a flow of at least one of gas and liquid.

15. (Twice Amended) A plant as claimed in claim 1, wherein the cable has a conductor area of about 40 and about 3000 mm² and have an outer cable diameter of about 10 and about 250 mm.

16. (Twice Amended) A plant as claimed in claim 1, further comprising an electrostatic machine for series connection to the motor for limiting at least one of start current and fault current for the rotating electric motor.

17. (Twice Amended) A plant as claimed in claim 1, including an impedance and wherein the neutral point of at least one motor is earthed via said impedance.

18. (Twice Amended) A plant as claimed in claim 1, at least one motor has a neutral point directly connected to earth.

19. (Twice Amended) A plant as claimed in of reactive power with relatively large overload capacity.

20. (Amended) A plant as claimed in claim 1, wherein the motor is connectable to a distribution network or transmission network via coupling elements and without any step-down transforming of the voltage level.

21. (Amended) A plant as claimed in claim 1, wherein the motor is connectable to a distribution network or transmission network having a supply voltage in excess of 36 kV.

22. (Amended) A plant as claimed in claim 1, wherein the winding of the motor is adapted for self-regulating field control free of auxiliary means for control of the field.

26. (Twice Amended) A motor as claimed in claim 1, wherein its stator winding is divided into two parts in order to achieve partial winding start.

27. (Twice Amended) A motor as claimed in claim 1, wherein said motor has one or more connection voltages.

29. (Thrice Amended) A plant for high voltage electric including a motor including at least one winding, wherein said winding comprises a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor including an inner layer of semiconducting material surrounding and being in electrical contact with the conductor, a solid insulating layer surrounding the inner layer, and an outer semiconducting layer surrounding the insulation layer, the conductor including at least one of a plurality of insulated conductive elements and at least one uninsulated conductive element in contact with the cover, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

30. The plant of claim 29, wherein the cover comprises an insulating layer surrounding the conductor and an outer layer surrounding the insulating layer, said outer layer having a conductivity sufficient to establish an equipotential surface around the conductor.

31. The plant of claim 29, wherein the cover comprises an inner layer surrounding the conductor and being in electrical contact therewith; an insulating layer surrounding the inner layer and an outer layer surrounding the insulating layer.

32. The plant of claim 31, wherein the inner and outer layers have semiconducting properties.

33. (Amended) The plant of claim 29, wherein the cover is formed of a plurality of layers including an insulating layer and wherein said plurality of layers are substantially free of cracks.

34. The plant of claim 29, wherein the cover is in electrical contact with the conductor.

35. The plant of claim 34, wherein the layers of the cover have substantially the same temperature coefficient of expansion.

36. The plant of claim 35, wherein the machine is operable at 100% overload for two hours.

37. (Amended) The plant of claim 29, wherein motor has coil end regions without an electric field outside of the cable, such that the cable is operable free of sensible end winding loss.

38. The plant of claim 29, wherein the winding is operable free of partial discharge and field control.

39. The plant of claim 29, wherein the winding comprises multiple uninterrupted turns.

41. The plant of claim 29, wherein the cable comprises a transmission line.

42. The plant of claim 29 being operable above 36kV.

43. (Twice Amended) An electric plant for high voltage including at least one motors comprising at least one winding in the form of at least one uninterrupted turn, the winding including an electrical conductor, a magnetically permeable electric field confining insulating covering in contact with the conductor including an inner semiconducting layer surrounding and being in electrical contact with the conductor; a solid insulation surrounding the inner layer and an outermost semiconducting layer surrounding the insulation layer, each semiconducting layer forming an equipotential surface around the conductor.

44. (Twice Amended) An electric plant for high voltage including at least one motor comprising at least one winding, including an electrical conductor forming at least one complete turn of the winding, an electric field confining insulating covering surrounding the conductor including an inner semiconducting layer in electrical contact with the conductor; a solid insulation surrounding the inner layer, and an outermost semiconducting layer surrounding the insulation layer, each semiconducting layer forming an equipotential surface around the conductor.